

Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bahramian et al. Attorney Docket: 2498/101 (formerly 2281/102)
Serial No: 09/472,558 Art Group Unit: 1632
Date Filed: December 27, 1999 Examiner Name: Paras, Jr.
Invention: MUTING GENE ACTIVITY USING A TRANSGENIC NUCLEIC ACID

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE STATEMENT****United States Patents**

| Examiner Initials | Reference Number | Document Number | Issue Date | Inventor | Class/Subclass |
|----------------------|---------------------|-----------------|------------|-----------|----------------|
| <u>PP</u> | AA | 5,908,960 | 06/01/99 | Newlander | 564/177 |

International Patents

| Examiner Initials | Reference Number | Document Number | Issue Date | Inventor | Class/Subclass |
|----------------------|---------------------|-----------------|------------|----------|----------------|
| <u>PP</u> | AB | WO 97/01560 | 16.01.97 | Ohlmeyer | C07D 487/04 |

Other Documents

| Examiner Initials | Reference Number | Author | Title of Article, Title of Item, Date, Page(s), Volume-Issue Number(s) |
|----------------------|---------------------|--|---|
| <u>PP</u> | AC | Soberon et al. | <i>Construction and Characterization of New Cloning Vehicles IV. Deletion Derivatives of pBR322 and pBR325</i> Gene 9:287-305 (1980) |
| <u>PP</u> | AD | Carlton ^{Carlton} et al. | <i>Chapter 30 - Product Recovery</i> Manual of Industrial Microbiology and Biotechnology 436-445 (1986) Ed. A. Dimain |

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| <u>PP</u> | AE | Chomczynski et al. | <i>Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction</i> Analytical Biochemistry 162:156-159 (1987) |
| <u>PP</u> | AF | Schnieke et al. | <i>Introduction of the human proα1(I) collagen gene into proα1(I)-deficient Mov-13 mouse cells leads to formation of functional mouse-human hybrid type I collagen</i> Proc. Nat. Acad. Sci. USA 84:764-768 (February 1987) |
| <u>PP</u> | AG | Sitrin et al. | <i>Developments in Industrial Microbiology</i> Journal of Industrial Microbiology 27/1:65-75 (1987) |
| <u>PP</u> | AH | Zarbl et al. | <i>Revertants of v-fos-Transformed Fibroblasts Have Mutations in Cellular Genes Essential for Transformation by Other Oncogenes</i> Cell 51:357-369 (November 6, 1987) |
| <u>PP</u> | AI | Bornstein et al. | <i>The First Intron of the α1(I) Collagen Gene Contains Several Transcriptional Regulatory Elements</i> The Journal of Biological Chemistry 263/4:1603-1606 (February 5, 1988) |
| <u>PP</u> | AJ | Brenner et al. | <i>Analysis of the collagen α1(I) promoter</i> Nucleic Acids Research 17/15:6055-6064 (July 5, 1989) |
| <u>PP</u> | AK | Lichtler et al. | <i>Isolation and Characterization of the Rat α1(I) Collagen Promoter</i> The Journal of Biological Chemistry 264/6:3072-3077 (February 25, 1989) |
| <u>PP</u> | AL | Rippe et al. | <i>Regulatory Elements in the 5'-Flanking Region and the First Intron Contribute to Transcriptional Control of the Mouse Alpha 1 Type I Collagen Gene</i> Molecular and Cellular Biology 9/5:2224-2227 (May 1989) |
| <u>PP</u> | AM | Stacey et al. | <i>Perinatal lethal osteogenesis imperfecta in transgenic mice bearing an engineered mutant pro-α1(I) collagen gene</i> Nature 332:131-136 (March 10, 1988) |

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| <u>PP</u> | AN | Currie | <i>Regulation of kappa immunoglobulin gene transcription in vitro</i> Nucleic Acids Research 18/10:2987-2992 (April 9, 1990) |
| <u>PP</u> | AO | Hoemann et al. | <i>Use of Revertant Cell Lines to Identify Targets of v-fos Transformation-specific Alterations in Gene Expression</i> Cell Growth & Differentiation 1:581-590 (December 1990) |
| <u>PP</u> | AP | LeFranc et al. | <i>Regulation of the immunoglobulin gene transcription</i> Biochimie 72:7-17 (1990) |
| <u>PP</u> | AQ | Barker et al. | <i>Retrovirus-Induced Insertional Mutagenesis: Mechanism of Collagen Mutation in Mov13 Mice</i> Molecular and Cellular Biology 11/10:5154-5163 (October 1991) |
| <u>PP</u> | AR | Chan et al. | <i>Retrovirus-Induced Interference with Collagen I Gene Expression in Mov13 Fibroblasts is Maintained in the Absence of DNA Methylation</i> Molecular and Cellular Biology 11/1:47-54 (January 1991) |
| <u>PP</u> | AS | Dhawan et al. | <i>Cell Adhesion Regulates Pro-$\alpha 1(I)$ Collagen mRNA Stability and Transcription in Mouse Fibroblasts</i> The Journal of Biological Chemistry 266/13:8470-8475 (May 5, 1991) |
| <u>PP</u> | AT | Ritzenthaler et al. | <i>Transforming-growth-factor-β activation elements in the distal promoter regions of the rat $\alpha 1$ type I collagen gene</i> Biochemistry Journal 280:157-162 (June 11, 1991) |
| <u>PP</u> | AU | Staudt et al. | <i>Immunoglobulin Gene Transcription</i> Annual Review of Immunology 9:373-398 (1991) |
| <u>PP</u> | AV | Wang et al. | <i>Positive and Negative Regulation of Immunoglobulin Gene Expression by a Novel B-Cell-Specific Enhancer Element</i> Molecular and Cellular Biology 11/1:75-83 (January 1991) |

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| <u>PP</u> | AW | Kho et al. | <i>Fte-1, a v-fos transformation effector gene, encodes the mammalian homologue of a yeast gene involved in protein import into mitochondria</i> Proc. Nat. Acad. Sci. USA 89:2200-2204 (March 1992) |
| <u>PP</u> | AX | Slack et al. | <i>Regulation of Collagen I Gene Expression by ras</i> Molecular and Cellular Biology 12/10:4714-4723 (October 1992) |
| <u>PP</u> | AY | Capecchi | <i>Targeted Gene Replacement</i> Scientific American 52-59 (March 1994) |
| <u>PP</u> | AZ | Bahramian et al. | <i>Direct Gene Quantitation by PCR Reveals Differential Accumulation of Ectopic Enzyme in Rat-1 Cells, v-fos Transformants, and Revertants</i> PCR Methods and Applications 4:145-153 (1994) |
| <u>PP</u> | BA | Ingelbrecht et al. | <i>Posttranscriptional silencing of reporter transgenes in tobacco correlates with DNA methylation</i> Proc. Nat. Acad. Sci. USA 91:10502-10506 (October 1994) |
| <u>PP</u> | BB | Van Amsterdam et al. | <i>Elevated expression of the junB proto-oncogene is essential for v-fos induced transformation of Rat-1 cells</i> Oncogene 9:2969-2976 (June 15, 1994) |
| <u>PP</u> | BC | Farrell et al. | <i>Naturally occurring antisense transcripts are present in chick embryo chondrocytes simultaneously with the down-regulation of the alpha 1(I) collagen gene</i> The Journal of Biological Chemistry 270/7: 3400-3408 (February 17, 1995) |
| <u>PP</u> | BD | Jorgensen | <i>Cosuppression, Flower Color Patterns, and Metastable Gene Expression States</i> Science 268:686-691 (May 5, 1995) |

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| <u>PP</u> | BE | Cogoni et al. | <i>Transgene silencing of the al-1 gene in vegetative cells of Neurospora is mediated by a cytoplasmic effector and does not depend on DNA-DNA interactions or DNA methylation</i> EMBO Journal 15/12:3153-3163 (1996) |
| <u>PP</u> | BF | Magis et al. | <i>An upstream activator of transcription coordinately increases the level and epigenetic stability of gene expression</i> Proc. Nat. Acad. Sci. USA 93:13914-13919 (November 1996) |
| <u>PP</u> | BG | Meyer | <i>Repeat-Induced Gene Silencing: Common Mechanisms in Plants and Fungi</i> Biological Chemistry 377:87-95 (February 1996) |
| <u>PP</u> | BH | Tsai et al. | <i>Cell-Type-Specific Regulation of the Human Tumor Necrosis Factor Alpha Gene in B Cells and T Cells by NFATp and ATF-2/JUN</i> Molecular and Cellular Biology 16/10:5232-5244 (October 1996) |
| <u>PP</u> | BI | Bingham | <i>Cosuppression Comes to the Animals</i> Cell 90:385-387 (1997) |
| <u>PP</u> | BJ | Cogoni et al. | <i>Isolation of quelling-defective (qde) mutants impaired in posttranscriptional transgene-induced silencing in Neurospora crassa</i> Proc. Nat. Acad. Sci. USA 94:10233-10238 (September 1997) |
| <u>PP</u> | BK | Metzlaff et al. | <i>RNA-Mediated RNA Degradation and Chalcone Synthase A Silencing in Petunia</i> Cell 88:845-854 (March 21, 1997) |
| <u>PP</u> | BL | Pal-Bhadra. et al. | <i>Cosuppression in Drosophila: Gene Silencing of Alcohol dehydrogenase by white-Adh Transgenes is Polycomb Dependent</i> Cell 90:479-490 (August 8, 1997) |
| <u>PP</u> | BM | Palla et al. | <i>Enhancer blocking activity located near the 3' end of the sea urchin early H2A histone gene</i> Proc. Nat. Acad. Sci. USA 94:2272-2277 (March 1997) |

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Binding of upstream stimulatory factor to an E-box in the 3'-flanking region stimulates $\alpha 1(I)$ collagen gene transcription
The Journal of Biological Chemistry
272/3:1753-1760 (January 17, 1997)

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Down-regulation of Tumor Necrosis Factor α Expression by Activating Transcription Factor 2 Increases UVC-induced Apoptosis of Late-stage Melanoma Cells
The Journal of Biological Chemistry
274/20:14079-14089 (May 14, 1999)

Examiner Signature: _____

Pete Pinsky

Date Considered: _____

3/11/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation *if not* in conformance and not considered. Include copy of this form with next communication to applicant.

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